## Publications of Andrzej J. Buras Selected from 1973-2022

## Articles

 J. Aebischer, A. J. Buras and J. Kumar, "Simple Rules for Evanescent Operators in One-Loop Basis Transformations," [arXiv:2202.01225 [hep-ph]].

0 citations counted in INSPIRE as of 09 Feb 2022

- [2] A. J. Buras and E. Venturini, "Searching for New Physics in Rare K and B Decays without |V<sub>cb</sub>| and |V<sub>ub</sub>| Uncertainties," [arXiv:2109.11032 [hep-ph]].
  3 citations counted in INSPIRE as of 08 Feb 2022
- [3] J. Aebischer, C. Bobeth, A. J. Buras and J. Kumar, "BSM master formula for ε'/ε in the WET basis at NLO in QCD," JHEP 12 (2021), 043 [arXiv:2107.12391 [hep-ph]].
  3 citations counted in INSPIRE as of 04 Feb 2022
- [4] A. J. Buras, P. Colangelo, F. De Fazio and F. Loparco, "The charm of 331," JHEP 10 (2021), 021 [arXiv:2107.10866 [hep-ph]].

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- [5] J. Aebischer, C. Bobeth, A. J. Buras, J. Kumar and M. Misiak, "General non-leptonic ΔF = 1 WET at the NLO in QCD," JHEP 11 (2021), 227 [arXiv:2107.10262 [hep-ph]].
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- [6] C. Bobeth and A. J. Buras, "Searching for New Physics with B
  (B<sub>s,d</sub> → μμ)/ΔM<sub>s,d</sub>," Acta Phys. Polon. B 52 (2021), 1189 [arXiv:2104.09521 [hep-ph]].
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- [7] A. J. Buras, A. Crivellin, F. Kirk, C. A. Manzari and M. Montull, "Global analysis of leptophilic Z' bosons," JHEP 06 (2021), 068 [arXiv:2104.07680 [hep-ph]].
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- [8] A. J. Buras, "The ϵ'/ϵ-Story: 1976-2021," Acta Phys. Polon. B 52 (2021) no.1, 7-41 [arXiv:2101.00020 [hep-ph]].

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[9] J. Aebischer, C. Bobeth, A. J. Buras and J. Kumar, "SMEFT ATLAS of  $\Delta F = 2$  transitions," JHEP 12 (2020), 187 [arXiv:2009.07276 [hep-ph]].

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- [10] J. Aebischer, A. J. Buras and J. Kumar, "Another SMEFT story: Z' facing new results on ε'/ε, ΔM<sub>K</sub> and K → πνν," JHEP **12** (2020), 097 [arXiv:2006.01138 [hep-ph]].
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- [11] A. Buras, "Gauge Theory of Weak Decays," Cambridge University Press (2020).7 citations counted in INSPIRE as of 04 Feb 2022
- [12] J. Aebischer, C. Bobeth and A. J. Buras, "ε'/ε in the Standard Model at the Dawn of the 2020s," Eur. Phys. J. C 80 (2020) no.8, 705 [arXiv:2005.05978 [hep-ph]].
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- [13] A. J. Buras and J. M. Gérard, "Isospin-breaking in ε'/ε: impact of η<sub>0</sub> at the dawn of the 2020s," Eur. Phys. J. C 80 (2020) no.8, 701 [arXiv:2005.08976 [hep-ph]].
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- [15] J. Aebischer, A. J. Buras, M. Cerdà-Sevilla and F. De Fazio, "Quark-lepton connections in Z' mediated FCNC processes: gauge anomaly cancellations at work," JHEP 02 (2020), 183 [arXiv:1912.09308 [hepph]].

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- [16] J. Aebischer, C. Bobeth and A. J. Buras, "On the importance of NNLO QCD and isospin-breaking corrections in ε'/ε," Eur. Phys. J. C 80 (2020) no.1, 1 [arXiv:1909.05610 [hep-ph]].
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- [17] A. Cerri, V. V. Gligorov, S. Malvezzi, J. Martin Camalich, J. Zupan, S. Akar, J. Alimena, B. C. Allanach, W. Altmannshofer and L. Anderlini, *et al.* "Report from Working Group 4: Opportunities in Flavour Physics at the HL-LHC and HE-LHC," CERN Yellow Rep. Monogr. 7 (2019), 867-1158 [arXiv:1812.07638 [hep-ph]].

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- [18] M. Blanke and A. J. Buras, "Emerging ΔM<sub>d</sub> -anomaly from tree-level determinations of |V<sub>cb</sub>| and the angle γ," Eur. Phys. J. C **79** (2019) no.2, 159 [arXiv:1812.06963 [hep-ph]].
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- [19] A. J. Buras, " $\epsilon'/\epsilon$ -2018: A Christmas Story," [arXiv:1812.06102 [hep-ph]]. 14 citations counted in INSPIRE as of 28 Jan 2022

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- [22] J. Aebischer, C. Bobeth, A. J. Buras and D. M. Straub, "Anatomy of ε'/ε beyond the standard model," Eur. Phys. J. C 79 (2019) no.3, 219 [arXiv:1808.00466 [hep-ph]].
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- [27] A. J. Buras and J. M. Gérard, "Dual QCD Insight into BSM Hadronic Matrix Elements for K<sup>0</sup> K
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- [39] A. J. Buras, "New physics patterns in ε'/ε and ε<sub>K</sub> with implications for rare kaon decays and ΔM<sub>K</sub>," JHEP 04 (2016), 071 [arXiv:1601.00005 [hep-ph]].
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- [48] A. J. Buras, J. Girrbach-Noe, C. Niehoff and D. M. Straub, "B → K<sup>(\*)</sup>νν ¯ decays in the Standard Model and beyond," JHEP **02** (2015), 184 [arXiv:1409.4557 [hep-ph]].
  247 citations counted in INSPIRE as of 10 Feb 2022
- [49] A. J. Buras, D. Buttazzo, J. Girrbach-Noe and R. Knegjens, "Can we reach the Zeptouniverse with rare K and B<sub>s,d</sub> decays?," JHEP 11 (2014), 121 [arXiv:1408.0728 [hep-ph]].
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- [50] A. J. Buras, F. De Fazio and J. Girrbach-Noe, "Z-Z' mixing and Z-mediated FCNCs in SU(3)<sub>C</sub> × SU(3)<sub>L</sub> × U(1)<sub>X</sub> models," JHEP 08 (2014), 039 [arXiv:1405.3850 [hep-ph]].
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- [66] R. Aaij et al. [LHCb], "Implications of LHCb measurements and future prospects," Eur. Phys. J. C 73 (2013) no.4, 2373 [arXiv:1208.3355 [hep-ex]].
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